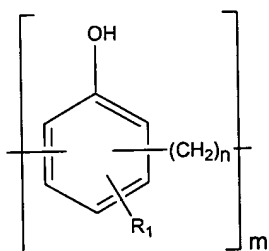


## **AMENDMENTS TO THE CLAIMS:**

The listing of claims will replace all prior versions, and listings of claims in the application:

## **LISTING OF THE CLAIMS**

1. (Currently Amended) A jet fuel composition comprising
- (i) a jet fuel; and
  - (ii) a phenolic additive consisting of a compound of Formula I



Formula I

wherein m is 1;

wherein n is 0;

wherein R<sub>1</sub> is a branched alkyl group; and

wherein R<sub>1</sub> has a molecular weight of 500 to 2500; said additive being free from substituted phenol/epichlorohydrin/amine adducts.

2. (Original) A jet fuel composition according to claim 1 further comprising (iii) an antioxidant.

3. (Previously presented) A jet fuel composition according to claim 1 further comprising (iv) a metal deactivator.

Claims 4-7 (Canceled)

8. (Previously presented) A jet fuel composition according to claim 1 wherein R<sub>1</sub> is a C<sub>12</sub>-C<sub>200</sub> group.

9. (Previously presented) A jet fuel composition according to claim 1 wherein R<sub>1</sub> is a C<sub>40</sub>-C<sub>180</sub> group.

10. (Canceled)

11. (Previously presented) A jet fuel composition of claim 1 wherein  $R_1$  is a poly(branched alkenyl) group.

12. (Previously presented) A jet fuel composition according to claim 1 wherein  $R_1$  is polyisobutene (PIB).

13. (Canceled)

14. (Canceled)

15. (Previously presented) A jet fuel composition according to claim 1 wherein  $R_1$  has a molecular weight of approximately 750.

16. (Previously presented) A jet fuel composition according to claim 1 wherein  $R_1$  has a molecular weight of approximately 1000.

17. (Previously presented) A jet fuel composition according to claim 1 wherein  $R_1$  has a molecular weight of approximately 2300.

Claims 18-30 (Canceled)

31. (Previously presented) A jet fuel composition according to claim 2 wherein the antioxidant is a phosphonate.

32. (Original) A jet fuel composition according to claim 31 wherein the antioxidant is dilauryl phosphonate.

33. (Previously presented) A jet fuel composition according to claim 3 wherein the metal deactivator is N,N'-disalicylidene 1,2-propanediamine.

34. (Previously presented) A jet fuel composition according to claim 1 wherein the compound of Formula I is present in an amount of 50-200mg/L.

35. (Previously presented) A jet fuel composition according to claim 1 wherein the compound of Formula I is present in an amount of 80-120mg/L.

36. (Previously presented) A jet fuel composition according to claim 2 wherein the antioxidant is present in an amount of 1-50mg/L.

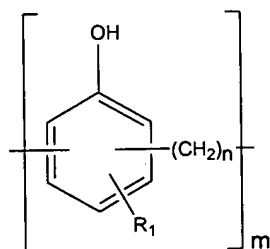
37. (Original) A jet fuel composition according to claim 36 wherein the antioxidant is present in an amount of 1-30mg/L.

38. (Previously presented) A jet fuel composition according to claim 3 wherein the metal deactivator is present in an amount of 0.05 – 10mg/L.

39. (Original) A jet fuel composition according to claim 38 wherein the metal deactivator is present in an amount of 0.5 – 5mg/L.

Claims 40-44 (Canceled)

45. (Currently Amended) A method for inhibiting deposit formation in a jet fuel at a temperature of from 100 to 335°C, the method comprising combining with the jet fuel a phenolic additive consisting of a compound of Formula I



Formula I

wherein m is 1;

wherein n is 0;

wherein R<sub>1</sub> is a branched alkyl group; and

wherein R<sub>1</sub> has a molecular weight of 500 to 2500; said additive being free from substituted phenol/epichlorohydrin/amine adducts.

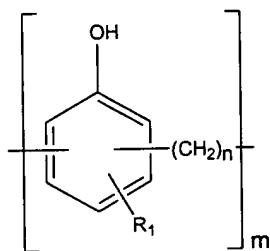
Claims 46-49 (Canceled)

50. (Canceled)

51. (Canceled)

52. (Canceled)

53. (Previously presented) A method of inhibiting the oxidation of a jet fuel composition comprising adding to a jet fuel a phenolic additive consisting of the compound of Formula I



Formula I

wherein m is 1;

wherein n is 0;

wherein R<sub>1</sub> is a branched alkyl group and having a molecular weight of 500 to 2500 to thereby forming a mixture.

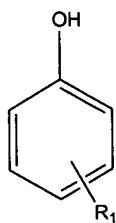
54. (Previously presented) The method of claim 53 further comprising pre-combustion heating of the mixture.

55. (Previously presented) The method of claim 53 further comprising adding to one of the jet fuel or the mixture at least one from the group consisting of an antioxidant, a corrosion inhibitor, a lubricity improver, a metal deactivator, a leak detection additive, a special purpose additive, an anti-icing additive, and a static dissipater.

56. (Canceled)

57. (New) A jet fuel composition comprising

- (i) a jet fuel;
- (ii) a deposit inhibiting additive, wherein the deposit inhibiting additive consists essentially of phenolic compounds of formula (I)



Formula I

- wherein  $R_1$  is a branched alkyl group having a molecular weight of 500 to 2500; and
- (iii) at least one antioxidant selected from the group consisting of hindered phenol antioxidants and phosphorus-containing antioxidants.